

# **Analytical Methods Approved for Compliance Monitoring under** the Enhanced Surface Water Treatment Rule

Analysis for the following contaminants shall be conducted in accordance with the methods in the following table or their equivalent as determined by EPA. The methods and monitoring requirements for these contaminants are specified in 40 CFR 141.74. Additional methods are listed in Appendix A to Subpart C of Part 141.

The CFR is the legal reference for approved methods and takes precedent over this table. The table should accurately reflect the analytical methods information published in 40 CFR 141. If you find discrepancies, please notify The Safe Drinking Water Hotline (800-426-4791) so that EPA can correct the table.

Contaminant			EPA Bublication	Publication	_
Method Organization	Reference Title	Date	Publication Number	Order Number	Source of Method

ree Chlorine		If approved by the State, residual disinfectant concentrations for free chlorine and combined chlorine may be measured using DPD colorimetric test kits. If approved by the State, free chlorine may be measured using ITS free chlorine test strips. Use of the test strips is described in Method D99-003, "Free Chlorine Species (HOCl- and OCl-) by Test Strip," Revision 3.0, November 21, 2003, available from Industrial Test Systems, Inc., 1875 Langston St., Rock Hill, SC 29730.					
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods			
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995	Standard Methods			
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998	Standard Methods			
4500-Cl D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods			
4500-Cl D-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.		http://www.standardmethods.org/			
4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods			

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4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995	Standard Methods				
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4500-Cl F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods				
4500-C1 F-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.		http://www.standardmethods.org/				
4500-Cl G	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods				
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4500-Cl G-00	Standard Methods Online	Rock Hill, SC 29730.  Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.		http://www.standardmethods.org/
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995	Standard Methods
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998	Standard Methods
4500-Cl H	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods
4500-Cl H-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.		http://www.standardmethods.org/
D1253-03	ASTM International	Annual Book of ASTM Standards, Vol. 11.01		http://www.astm.org
D1253-86	ASTM International	Annual Book of ASTM Standards, Vol. 11.01		http://www.astm.org

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4500-C1 F	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods				
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4500-Cl I	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods
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Disinfectants						
Chlorine Diox	ide					
327 Rev 1.1	EPA	Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water Using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrophotometry	May 2005	EPA 815-R-05-008		http://www.epa.gov/safewater/methods/sourcalt.html
4500-C1O2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
4500-ClO2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
4500-C1O2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
4500-C1O2 C	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
4500-CIO2 C-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
4500-ClO2 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
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Disinfectants						
<b>Chlorine Diox</b>	ide					
4500-C1O2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
4500-ClO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
4500-ClO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
4500-ClO2 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
4500-CIO2 E-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Ozone						
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
4500-O3 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

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#### Ozone

4500-O3 B-97

Standard Methods Online Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved. http://www.standardmethods.org/

Total Coliforms		The time from sample collection to initiation of analysis may not exceed 8 hours. Systems must hold samples below 10°C during transit.				
9221 A	Standard Methods	Standard Methods for the Examination 1992 of Water and Wastewater, 18th Edition	Standard Methods			
		No requirement exists to run the completed phase on 1	0 percent of all total coliform-positive confirmed tubes.			
			I in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between normally tested, and this comparison demonstrates that the false-positive rate and false less than 10 percent.			
		Media should cover inverted tubes at least one-half to	two-thirds after the sample is added.			
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9221 C	Standard Methods	Standard Methods for the Examination 1992 of Water and Wastewater, 18th Edition	Standard Methods			
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9222 A	Standard Methods	Standard Methods for the Examination 1992 of Water and Wastewater, 18th Edition	Standard Methods				
			orth in the article, "New medium for the simultaneous detection of total 193, Appl. Environ. Microbiol. 59:3534-3544. EPA/600/J-99/225. Availabonies is not required.				
		Coliscan® is approved as a modification of MI under the ATP prog IN 46527-0340.	gram. It is available from Micrology Laboratories, P.O. Box 340, Goshen,				
9222 A	Standard Methods	Standard Methods for the Examination 1995 of Water and Wastewater, 19th Edition	Standard Methods				
			orth in the article, "New medium for the simultaneous detection of total 193, Appl. Environ. Microbiol. 59:3534-3544. EPA/600/J-99/225. Availabonies is not required.				
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9222 C	Standard Methods	Standard Methods for the Examination 1998 of Water and Wastewater, 20th Edition	Standard Methods			
			t forth in the article, "New medium for the simultaneous detection of total 1993, Appl. Environ. Microbiol. 59:3534-3544. EPA/600/J-99/225. Availab colonies is not required.			
		Coliscan® is approved as a modification of MI under the ATP $\mu$ IN 46527-0340.	program. It is available from Micrology Laboratories, P.O. Box 340, Goshen,			
9222 C	Standard Methods	Standard Methods for the Examination 2005 of Water and Wastewater, 21st Edition	Standard Methods			
		MI agar also may be used. Preparation and use of MI agar is set forth in the article, "New medium for the simultaneous detection of total coliform and <i>Escherichia coli</i> in water" by Brenner, K.P., <i>et al.</i> , 1993, Appl. Environ. Microbiol. 59:3534-3544. EPA/600/J-99/225. Available at: http://www.epa.gov/nerlcwww/online.htm. Verification of colonies is not required.				
		Coliscan® is approved as a modification of MI under the ATP p IN 46527-0340.	program. It is available from Micrology Laboratories, P.O. Box 340, Goshen,			
9222 C-97	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.	http://www.standardmethods.org/			
			t forth in the article, "New medium for the simultaneous detection of total 1993, Appl. Environ. Microbiol. 59:3534-3544. EPA/600/J-99/225. Availab colonies is not required.			
		Coliscan® is approved as a modification of MI under the ATP p IN 46527-0340.	program. It is available from Micrology Laboratories, P.O. Box 340, Goshen,			
9223	Standard Methods	Standard Methods for the Examination 1992 of Water and Wastewater, 18th Edition The ONPG-MUG Test is also known as the Autoanalysis Colile	Standard Methods ert System.			
9223	Standard Methods	Standard Methods for the Examination 1995 of Water and Wastewater, 19th Edition	Standard Methods			
		The ONPG-MUG Test is also known as the Autoanalysis Colile	ert System.			

Contaminar	nt			EPA	Publication	
Method	Organization	Reference Title	Date	Publication Number	Order Number	Source of Method

ncroviai Coniaminanis				
Total Colifo	rms	The time from sample collection to initiation	hours. Systems must hold samples below 10°C during transit.	
9223	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998	Standard Methods
		The ONPG-MUG Test is also know	n as the Autoanalysis Coliler	t System.
9223	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods
		The ONPG-MUG Test is also know	n as the Autoanalysis Colilert	t System.
9223 B-97	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.		http://www.standardmethods.org/
		The ONPG-MUG Test is also know	n as the Autoanalysis Coliler	t System.
Fecal Colifo	rms	The time from sample collection to initiation	of analysis may not exceed 8	hours. Systems must hold samples below 10°C during transit.
9221 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods
		A-1 broth may be held up to 7 days	in a tightly closed screw cap	tube at 4°C.
9221 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995	Standard Methods
		A-1 broth may be held up to 7 days	in a tightly closed screw cap	tube at 4°C.
9221 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998	Standard Methods
		A-1 broth may be held up to 7 days	in a tightly closed screw cap	tube at 4°C.
9221 E	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods
		A-1 broth may be held up to 7 days	in a tightly closed screw can	tube at 4°C

Contaminan	it			EPA Baldia atian	Publication	
Method	Organization	Reference Title	Date	Publication Number	Order Number	Source of Method

Fecal Colifo	rms	The time from sample collection to initiation of	of analysis may not exceed 8 ho	ours. Systems must hold samples below 10°C during transit.
9221 E-99	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.  A-1 broth may be held up to 7 days	in a tightly closed screw can tu	http://www.standardmethods.org/
9222 D	Standard Methods		1992	Standard Methods
9222 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995	Standard Methods
9222 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998	Standard Methods
9222 D	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods
9222 D-97	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.		http://www.standardmethods.org/
Heterotroph	nic Bacteria	The time from sample collection to initiation of	of analysis may not exceed 8 ho	ours. Systems must hold samples below 10°C during transit.
9215 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods
9215 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995	Standard Methods

Contamina Method	nt Organization	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Iicrobial Co	ntaminants					
Heterotroph	ic Bacteria	The time from sample collection to initiation	of analysis m	ay not exceed 8 hours	s. Systems must hole	d samples below 10°C during transit.
9215 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
9215 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
9215 B-00	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
SimPlate®	IDEXX Laboratories, Inc.	IDEXX SimPlate TM HPC Test Method for Heterotrophs in Water	November 2000			IDEXX Laboratories, Inc.

Turbidity		Styrene divinyl benzene beads (e.g. AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g. Hach StablCal <sup>TM</sup> or equivalent) are acceptable substitutes for formazin.					
10133 Rev. 2.0	Hach Co.	Hach Filter Track Method, "Determination of Turbidity by Laser Nephelometry," Revision 2.0	January 2000	Hach Company			
180.1 Rev 2.0	EPA	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993 EPA/600/R-93/100 PB94-1	120821 <a href="http://www.nemi.gov">http://www.nemi.gov</a>			
2130 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992	Standard Methods			

Contamina	nt			EPA	Publication	
Method	Organization	Reference Title	Date	Publication Number	Order Number	Source of Method

#### Water Quality Parameters

Turbidity		Styrene divinyl benzene beads (e.g. AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g. Hach StablCal <sup>TM</sup> or equivalent) are acceptable substitutes for formazin.				
2130 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995	Standard Methods		
2130 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998	Standard Methods		
2130 B	Standard Methods	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005	Standard Methods		
2130 B-01	Standard Methods Online	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.		http://www.standardmethods.org/		
Method 2	Great Lakes Instruments, Inc.	GLI Method 2, "Turbidity"	November 2, 1992	Great Lakes Instruments, Inc.		

Contact information for methods that are not available on the Internet are summarized in the report titled "Sources of Approved Analytical Methods for National Drinking Water Regulations."